

ACQUIRING A FREQUENCY AND PHASE OFFSET  
ESTIMATES USING FREQUENCY DOMAIN ANALYSIS

ABSTRACT OF THE DISCLOSURE

Determining a frequency and phase offset estimates include receiving a signal at an offset estimator. The received signal is zero-padded in the time domain to yield a zero-padded signal. A Fourier transform of the zero-padded signal is taken to yield a transformed signal. The maximum power of the transformed signal is established. Frequency and phase offset estimates are generated based on the maximum power of the transformed signal.